



**MODEL YK
CENTRIFUGAL LIQUID CHILLERS**

RENEWAL PARTS

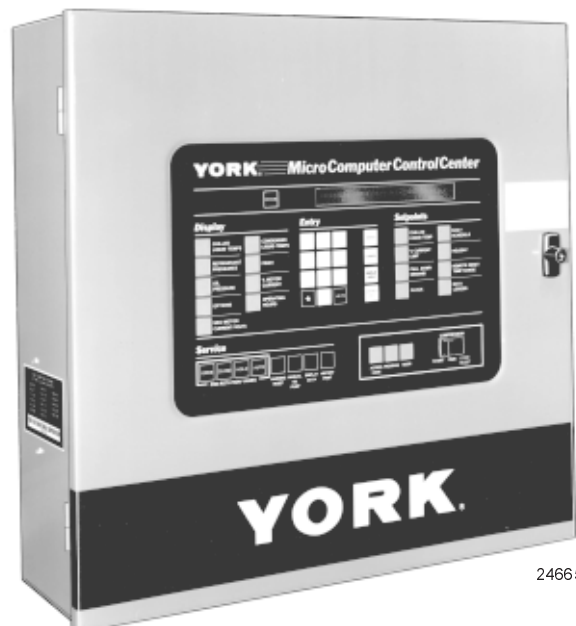
Supersedes: See Back Page

Form 160.49-RP3 (798)

**MICROCOMPUTER CONTROL CENTER
PART NO. 371-01200-004, 371-01200-016,
371-01200-017, & 371-01200-018
ELECTROMECHANICAL STARTER, SOLID STATE STARTER,
& VARIABLE SPEED DRIVE APPLICATIONS
R22 & R-134A MODEL YK
(STYLES A, B,C & D)**



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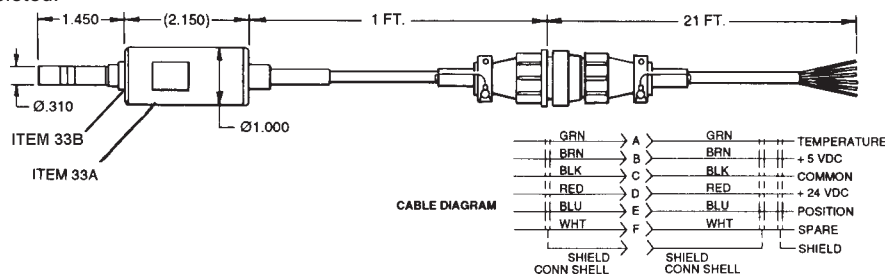
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ITEM	DESCRIPTION	FIG. NO	QTY.	PART NUMBER
1	RELAY (1R)	1	1	024-23962-000
2	TRANSFORMER	1	Note 8	025-27911-000
3	FUSE, 5 AMP (1 FU)	1	1	025-14019-000
4	FUSE, 20 AMP (2 FU)	1	1	025-28967-000
5	FUSE HOLDER (1 FU)	1	2	025-13991-000
6	CONTROL, MICRO BOARD (Note 2)	1	1	031-01065-002
7	CONTROL, POWER SUPPLY	1	1	031-01080-000
8	CONTROL, DIGITAL INPUT	1	1	031-00935-000
9	CONTROL, RELAY BOARD	1	1	031-00932-002
10	FASTENER, PAWL ADJ.	2	1	021-17252-000
11	KEYPAD (Standard)	2	1	024-24606-000
	(Simplified Chinese Language)	2	1	024-27236-000
	(Traditional Chinese Language)	2	1	024-27237-000
12	DISPLAY (See Fig. 5 for Chinese Display)	3, 4, 5	1	031-00775-001
13	SWITCH, ROCKER	2	1	024-23143-000
14	SUPPRESSOR	1	1	031-00808-000
15	FUSE HOLDER (2 FU)	—	—	025-17407-000
16	NOT USED	—	—	—
17	NOT USED	—	—	—
18	CONTROL, CURRENT MOD. CM-2 (Electro-Mech. Starter App. Only)	4	1	031-00947-000
19	DIODE BRIDGE (Electro-Mechanical Starter Appl. Only)	4	1	031-00210-000
20	RESISTOR, VARIABLE (Electro-Mechanical Starter App. Only)	4	2	025-20789-000
21	CONTROL, LOGIC - 7LK (Solid State Starter App. Only)	5	1	031-00936-002
22	CONTROL, LOGIC - 14LK (Solid State Starter App. Only)	5	1	031-00936-003
23	CONTROL, LOGIC - 26LK (Solid State Starter App. Only)	5	1	031-00936-004
24	CONTROL, LOGIC - 33LK (Solid State Starter App. Only)	5	1	031-00936-005
25	CONTROL, REMOTE RESET (Customer Option)	1	Note 1	031-00814-000
26	CARD FILE (Customer Option)	1	1	031-00827-000
27	IC, REAL TIME CLOCK - U16	1	1	031-00955-000
28	EPROM - U17	1	1	TABLE 1
29	TRANSDUCERS (R-22)	CONDENSER, HIGH OIL (Water & Brine App.)		025-28678-001
				EVAPORATOR (Water Applications)
				EVAPORATOR (Brine Applications)
				LOW OIL (Water & Brine Applications)
	TRANSDUCERS (R-134a)	COND., HIGH & LOW OIL (Water & Brine App.)		025-28678-001
		EVAPORATOR (Water & Brine App.)		025-28678-005
30	THERMISTORS	ENTERING CHILLED WATER TEMPERATURE		025-29964-000
		LEAVING CHILLED WATER TEMPERATURE		025-29964-000
		SENSOR WELL WITH THREADED TOP		026-32328-000
		ENTERING CONDENSER WATER TEMPERATURE		025-28935-000
		LEAVING CONDENSER WATER TEMPERATURE		025-28935-000
		OIL TEMPERATURE		025-28936-000
		DISCHARGE TEMPERATURE		025-28936-000
31	RELAY (2R) - 2HTR HEATER CONTROL (Note 3)	—	1	024-18496-000
32	THERMOCOUPLE (Note 4)	—	1	071-01423-000
33	PROXIMITY/TEMP. SENSOR MOD., INCLUD. PROX. PROBE (Note 5)	—	1	025-30472-000
33A	PROBE, PROX. / TEMP. WITH 21 FT. CABLE (Note 6)	—	1	025-30961-000
33B	“O” RING (MUST BE ORDERED SEPARATELY)	—	1	028-12513-000
34	VOLTAGE TRANSIENT PROTECTION MODULE (Note 7)	—	1	031-01586-000

ITEM	DESCRIPTION	FIG. NO	QTY.	PART NUMBER
35	CABLE, RIBBON – MICRO BOARD J4	1	1	031-00950-000
36	CABLE, RIBBON – RELAY BOARD J1	1	1	031-00951-000
37	CABLE, RIBBON – DISPLAY	3, 4, 5	1	031-00952-000
38	CABLE, RIBBON – DIGITAL INPUT BOARD J1	1	1	031-00953-000
39	CABLE, RIBBON – MICRO BOARD J2	1	1	031-00985-000
	KIT, RETROFIT – Simplified (Chinese Lang. Display) (also see Fig. 5)	—	—	371-01708-004
	KIT, RETROFIT – Traditional (Chinese Lang. Display) (also see Fig. 5)	—	—	371-01708-007
40	CONTROL, REFRIGERANT LEVEL	—	1	031-01655-000
41	BOARD, ADAPTIVE CAPACITY CONTROL (VSD App. Only)	—	1	031-01579-000

NOTES:

1. If it is desired to remotely reset both chilled water setpoint and current limit setpoint, 2 each are required. If it is desired to remotely reset only one of these setpoints, 1 each are required.
2. Replacement Micro Boards are shipped without EPROMs. Remove EPROM from defective board and use in replacement board. If new EPROM is required, refer to Table 1.
3. Located on condenser shell adjacent to oil pump contactor.
4. Item 32 should continue to be used as replacement part on chillers equipped with Item 33. (Production prior to October 1994)
5. Item 33 is replacement part of chillers built prior to October 1994. After present stock is depleted, Item 33A will be furnished.
6. Item 33A is supplied on all new chillers built after October 1994. Will be furnished as a replacement part for Item 33 after present stock of Item 33 is depleted.

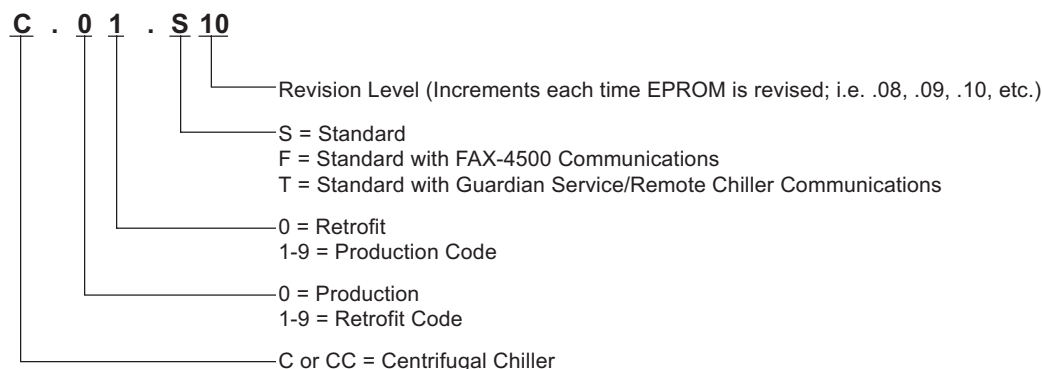


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7. For micro board RS-485 serial port (only used on units equipped with ISN FAX-4500 BAS connected to RS-485 serial port TB7). If this module is being installed for the first time, order kit 371-01477-000. Kit includes module and installation instructions.
8. 1 required on Styles A, B, & C. 2 required on Style D.

TABLE 1 – EPROMS (also see Fig. 5)

Order EPROMs by Part Number. The EPROM “VERSION” is an Alphanumeric Code that identifies the Application and Revision Level of the EPROM as follows:



VERSION	APPLICATION	PART NO.
C.02F.18	R-22 and R-134a Water and Brine Application also FAX-4500 BAS	031-01431-002
C.02S.10	Not Used; Superseded by 031-01431-002	031-01431-001
C.02S.09		031-01108-001
C.02F.09		031-01111-001
CC.02F.00	Simplified Chinese Version (IC-U13) (Note 1)	031-01640-001
CC.02F.00	Traditional Chinese Version (IC-U14) (Note 1)	031-01640-002

NOTE:

1. These EPROMs are used on the Optional Chinese Language Display Printed Circuit Board, P/N 031-01616-000 (See Fig. 5).

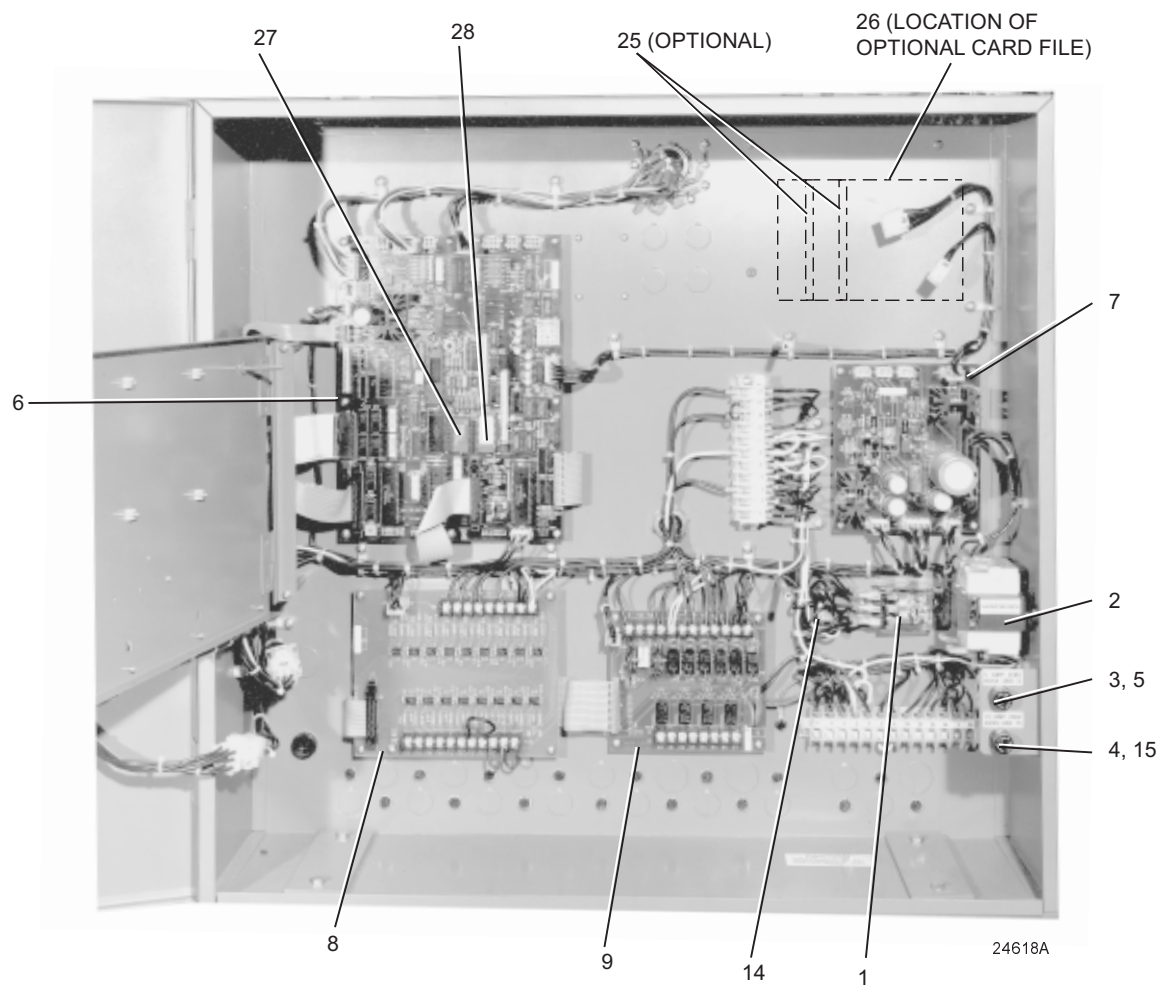


FIG. 1 – MICROCOMPUTER CONTROL CENTER – DOOR AND HINGED PANEL OPEN

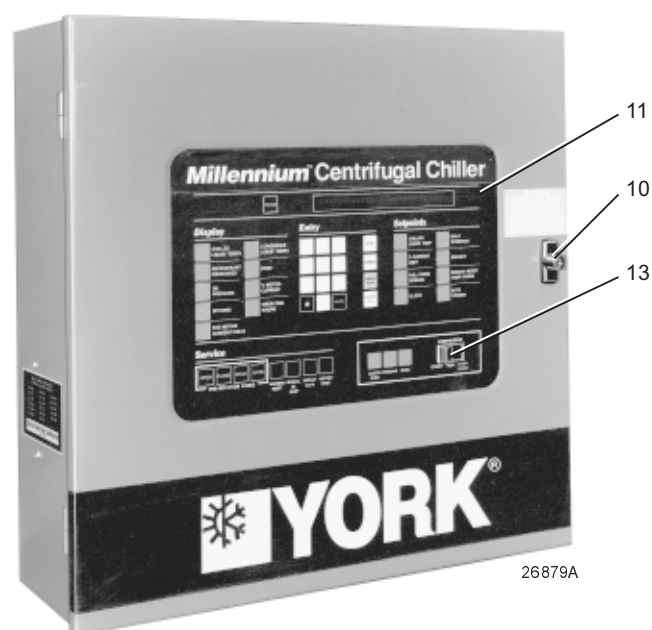


FIG. 2 – MICROCOMPUTER CONTROL CENTER – EXTERIOR

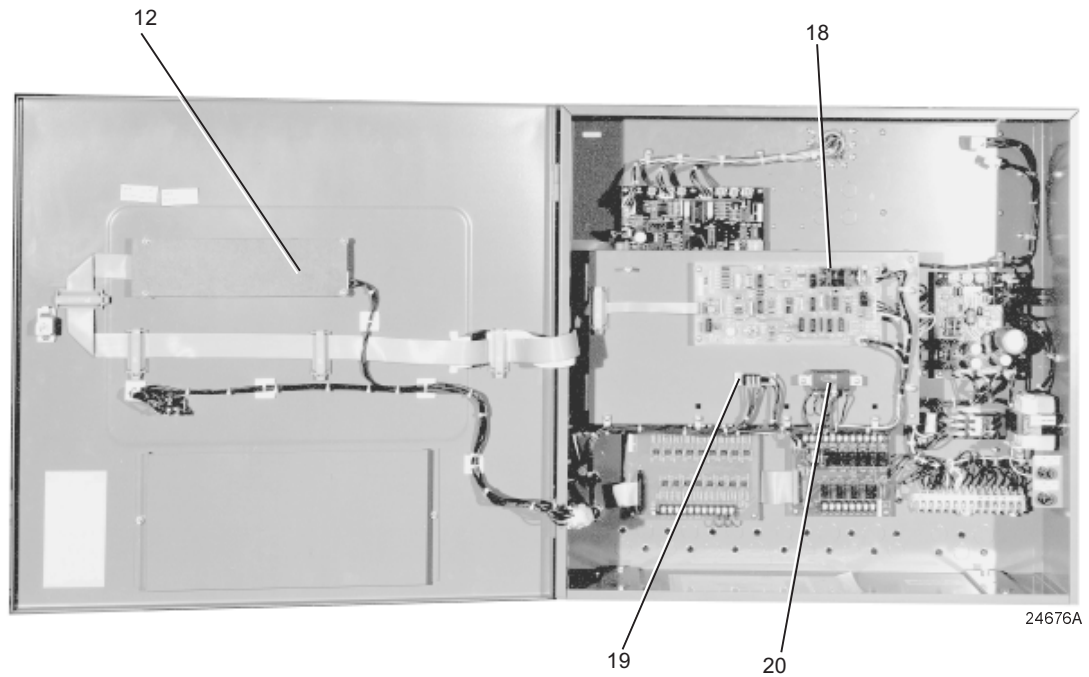


FIG. 3 – MICROCOMPUTER CONTROL CENTER – DOOR OPEN – ELECTRO-MECHANICAL STARTER

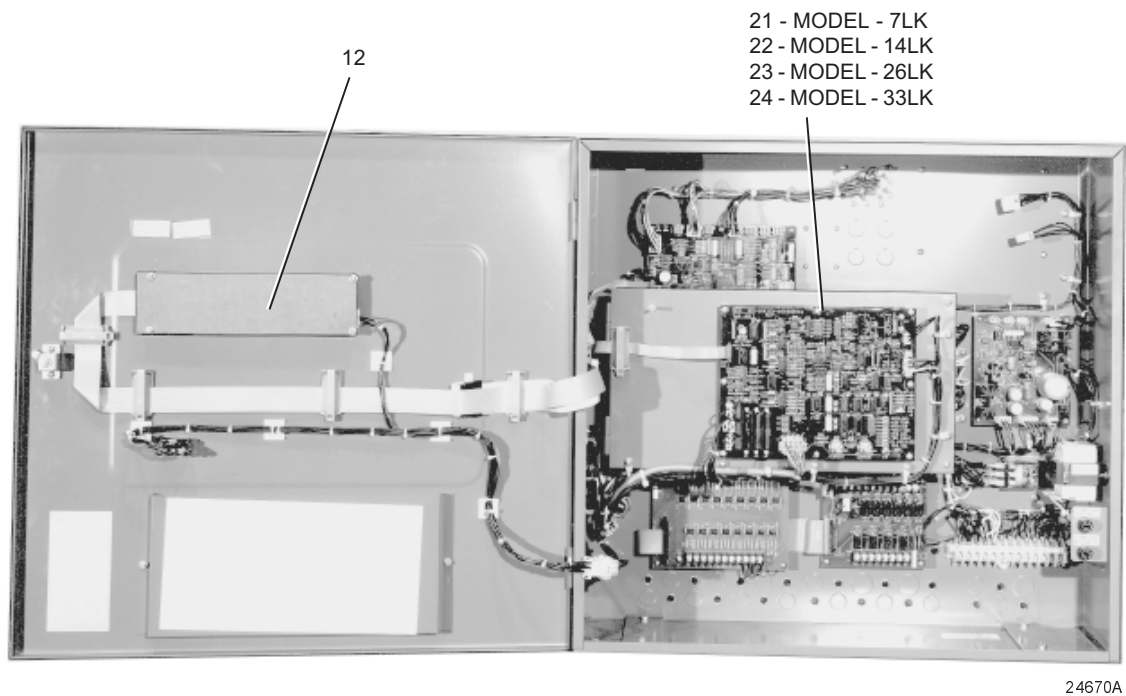


FIG. 4 – MICROCOMPUTER CONTROL CENTER – DOOR OPEN – SOLID STATE STARTER APPLICATIONS

NOTES for FIG. 5:

Beginning on / about April 1997, Chinese language displays will be supplied with either: two Simplified translation EPROMs or two Traditional translation EPROMs. If Simplified translation is desired, both of the Simplified EPROMs below are required. If Traditional translation is desired, both of the Traditional EPROMs below are required. The EPROM part numbers and on-board socket locations are as follows:

EPROM	TRANSLATION	SOCKET LOCATION
031-01700-001	Simplified	U13
031-01700-002	Simplified	U14
031-01700-003	Traditional	U13
031-01700-004	Traditional	U14

Prior to April 1997, Chinese Language displays contained one EPROM (031-01640-001) (socket location U13) that translated to Simplified Chinese and one EPROM (031-01640-002) (socket location U14) that translated to Traditional Chinese. The desired translation was then selected by Program Jumper PT0, located on the Chinese language display board. Due to the addition of messages, two EPROMs are now required for each translation as described above. When equipped with these new EPROMs, Program Jumper PT0 can no longer be used to select between Simplified or Traditional translation. If one of these earlier version EPROMs listed in Fig. 5 fail, it must be replaced with two EPROMs as follows:

IF THIS EPROM FAILS:

REPLACE WITH:

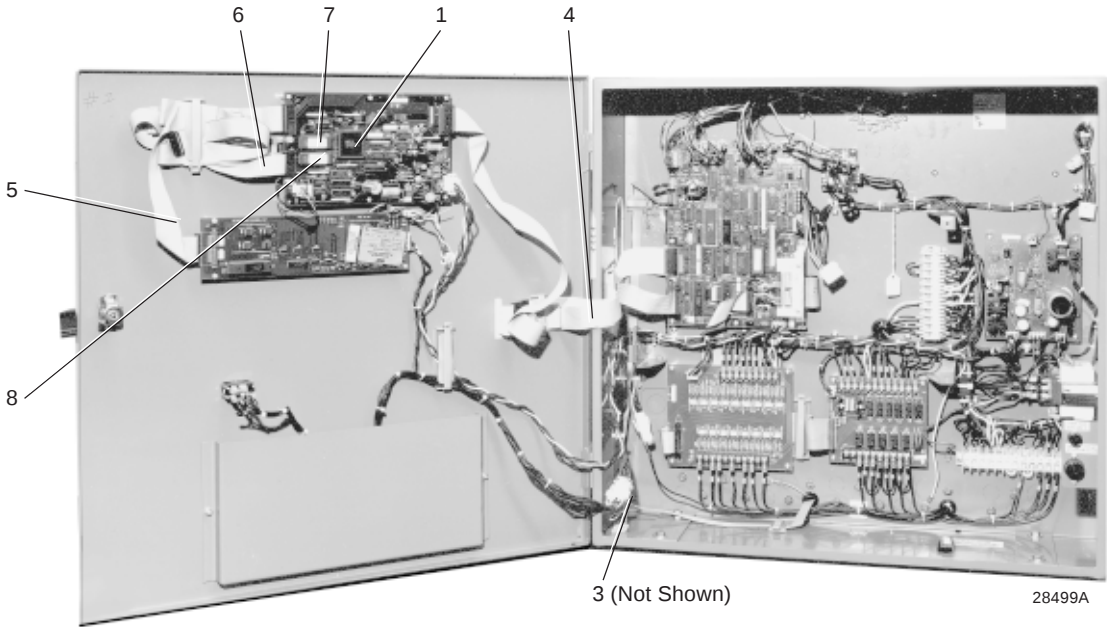
PART NO.	LOCATION	TRANSLATION	PART NO.	LOCATION
031-01640-001	U13	Simplified	031-01700-001 – AND – 031-01700-002	U13 U14
031-01640-002	U14	Traditional	031-01700-003 – AND – 031-01700-004	U13 U14

RETROFIT KIT

The Chinese Language display can be retrofit to existing chillers. Retrofit kit contains a complete MicroComputer Control Center door. Mounted on the door is a keypad, rocker switch, lock, ribbon cables, decals, vacuum fluorescent English Language display and Chinese Language display. The appropriate EPROM for the Micro Board is supplied. Also, installation instructions are included. This kit can be ordered from the Service Parts Distribution Center.



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ITEM	DESCRIPTION (SEE NOTES ON PAGE 6)	PART NO.
1	PC Board, Chinese Language Display	031-01616-000
2	Display, Chinese Language LCD Graphic	031-01653-000
3	Transformer, Chinese Language Display 115VAC / 24VAC	025-27911-000
4	Cable, Ribbon – Micro Board to Chinese Language Display	031-01647-000
5	Cable, Ribbon – Chinese Display Board to Vacuum Fluorescent Display	031-01646-000
6	Cable, Ribbon – Chinese Display Board to Chinese Language LCD Display	031-01645-000
7	EPROM – CC.01F.00 (IC-U13) – Simplified Chinese Language	031-01640-001
8	EPROM – CC.01F.00 (IC-U14) – Traditional Chinese Language	031-01640-002

FIG. 5 – CHINESE LANGUAGE DISPLAY COMPONENTS



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Form 160.49-RP3 (798)

Supersedes: 160.49-RP3 (295)

160.49-RP3 (SB1) (895)

160.49-RP3 (SB2) (396)

160.49-RP3 (SB4) (696)

160.49-RP3 (SB5) (797)

160.49-RP3 (SB6) (997)

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